Approved for use through 10/31/2002 OMB 0651-0032 Patent and Trademark Office. U.S DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to **UTILITY** PATENT APPLICATION

espond to a c	collection of infor	mation unless it displays a valid OMB control i	number -	
Attorney Docket No First Inventor		1875 1640000	To	
		Reza-ur Rahman Khan	-5	
Tıtle	Ball Grid Ar	ray Package Substrates and Method of	SS	

 $\begin{array}{c} \textbf{TRANSMITTAL} \\ \textit{(Only for new nonprovisional applications under 37 CFR § 1.53(b))} \end{array}$

		1		
First Inventor		Reza-ur Rahman Khan		
Title	Ball Grid Array Making the Sam	Package Substrates and Method of te	S. D.	
Express Mail Label No			6	

		APPLICATION ELI See MPEP chapter 600 concerning utility p		AD	DRI	ESS TO:	Assistant Comr Box Patent App Washington, D	plica		71	
1. 2.		Fee Transmittal Form (e.g., PTO (Submit an original, and a duplicate for for Applicant claims small entity sta	ee processing)	•	/A Nucle	ppendix)	Amino Acid Se	·	large table or Connce Submission	mputer Pro	gram
dans that there is:	☑ ☑	See 37 CFR 1.27. Specification [Total (preferred arrangement set forth below) - Descriptive title of the Invention - Cross Reference to Related Application: - Statement Regarding Fed sponsored R & - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if file) - Detailed Description - Claim(s) - Abstract of the Disclosure Drawing(s) (35 U.S.C. 113) [Total content of the Drawings]	Pages 29] a D ad) otal Sheets 8]	1	o. Spe	i C ii pa Stauements ACCO Assignmen 37 CFR 3 7	Readable Form (C quence Listing on D-ROM or CD-R aper verifying identity MPANYING A t Papers (cover she is an assignee)	: (2 c	copies); or above copies		
One of the state o		 a. Newly executed (original or b. Copy from a prior application (for continuation/divisional with in DELETION OF I Signed statement at 	on (37 CFR 1.63(d)) th Box 18 completed) NVENTOR(S) tached deleting inventor(s) application, see 37 CFR §§ (b).	11.12.13.14.15.16.17.		Information Statement (Preliminary Two Return (Should be sp. Certified C (If foreign pr. Nonpublicate form PTO/SE Other: A	3/35 or its equivalent	US:	Copies of IDS Citations MPEP 503) ment(s) .C 122 (b)(2)(B)(i) A		t attach
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-Part (CIP) of prior application No:/											
			19. CO RRESPO	444		DDRESS					
✓ Customer Number or Bar Code Label ✓ 26					or Correspondence address below DEMARK OFFICE (ach bar code label here)						
A.	AME DDR ITY OUN	Attorneys at Law ESS 1100 New Yorl Washington	A Ave. N.W. Ste. 600 STATE TELEPHONE	DC			ZIP COD	E	20005 202-371-2540		
		(Print/Type) Jeffrey S. Weaver	1 Wea		Re	gistration No	. (Attorney/Agent)	—	5,608 Pate 12-18-	- 51	

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*LIMITED TO MATTERS
AND PROCEEDINGS BEFORE
FEDERAL COURTS & AGENCIES
**REGISTERED PATENT AGENT

December 18, 2001

WRITER'S DIRECT NUMBER: (202) 218-7831 **INTERNET ADDRESS:** JWEAVER@SKGF COM

Commissioner for Patents Washington, D.C. 20231

Box Patent Application

Re:

U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)

Appl. No. To be assigned; Filed: December 14, 2001

Ball Grid Array Package Substrates and Method of Making the Same

Khan et al. Inventors: Our Ref: 1875.1640000

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

- 1. PTO Fee Transmittal (Form PTO/SB/17) (in duplicate);
- 2. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
- U.S. Utility Patent Application entitled: 3.

Ball Grid Array Package Substrates and Method of Making the Same

and naming as inventors:

Reza-ur Rahman Khan **Chong Hua Zhong**

Commissioner for Patents December 18, 2001 Page 2

the application consisting of:

- a. A specification containing:
 - i. 23 pages of description prior to the claims;
 - ii. 5 pages of claims (30 claims);
 - iii. a one (1) page abstract;
- b. <u>8</u> sheets of drawings (Figures 1A, 1B, 2A, 2B, 3-7, 8A, 8B, 9);
- c. An original executed Declaration; and
- d. Application Data Sheet;
- 4. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3) (in duplicate);
- 5. Two (2) return postcards; and
- 6. Our check No. 33568 for \$ 1,172.00 to cover:

\$ 740.00 Filing fee for patent application;

\$ 180.00 Fee for excess total claims; and

\$ 252.00 Fee for excess independent claims.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. A duplicate copy of this letter is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Jeffrey S. Weaver Attorney for Applicant Registration No. 45,608

Hy S. Wear

JSW/asl Enclosures

PTO/SB/17 (10-01)
Approved for use through 10/31/2002 OMB 0651-0032
Patent and Trademark Office U S DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to re

FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

(\$)1,172.00

Complete if Known					
Application Number	To be assigned				
Filing Date	December 18, 2001				
First Named Inventor	Reza-ur Rahman Khan				
Examiner Name	To be assigned				
Group Art Unit	To be assigned				
Attorney Docket No.	1875.1640000				

METHOD OF PAYMENT (check one)				FEE	CALCULATION (continued)	
1. The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to:		TIONAL Entity		Entity			
Deposit Account Number 19-0036	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee D	escription	Fee paid
Deposit Account Name Sterne, Kessler, Goldstein & Fox P L.L C.	105	130	205	65	Surcharge - late filing f	ee or oath	
	127	50	227	25	Surcharge - late provisiona	I filing fee or cover shee	t l
☐ Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17		130	139	130	Non-English specifi	cation	
Applicant claims small entity status See 37 CFR 1 27		2,520	147	2,520	For filing a request fo	r ex <i>part</i> e reexamin	ation
* See 37 CFR 1 27		920*	112	920*	Requesting publication of action	of SIR prior to Examine	er
2 Payment Enclosed	113	1,840*	113	1,840*	Requesting publication of	of SIR after Examiner a	action
Check Credit card Money Order Other Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No 19-0036	* 115	110	215	55	Extension for reply w	thin first month	
FEE CALCULATION	116	400	216	200	Extension for reply w	thin second month	
1. BASIC FILING FEE	117	920	217	460	Extension for reply w	thin third month	
Large Entity Small Entity Fee Fee Fee Fee Description Fee Paid	118	1,440	218	720	Extension for reply w	ithin fourth month	
Code (\$) Code (\$)	128		228	980	Extension for reply w	thin fifth month	
101: 740 201 370 Utility filing fee \$740.00	119	320	219	160	Notice of Appeal		
106 330 206 165 Design filing fee	120	320	220	160	Filing a brief in support of an appeal		
197 510 207 255 Plant filing fee	121	280	221	140	Request for oral hearing		
108: 740 208 370 Reissue filing fee	138 140		138	1,510	Petition to institute a public use proceeding		ng
114 160 214 80 Provisional filing fee		110 1,280	240 241	55 640	Petition to revive - un Petition to revive - un		
SUBTOTAL (1) (\$) 740 00	141 142		242	640	Utility issue fee (or re		
V / W/	143		243	230	Design issue fee	,	
	144	620	244	310	Plant issue fee		
	122	130	122	130	Petitions to the Comr	nissioner	
2. EXTRA CLAIM FEES Fee from Extra below Fee P	123	130	123	130	Petitions related to pr	ovisional applicatio	ns
Total Claims30 20** = 10 X 18 = \$180 00	126	180	126	180	Submission of Inform	ation Disclosure St	mt T
Indep. Claims 6 - 3 ** = 3 X 84 = \$252.00	581	40	481	40	Recording each pater property (times numb		
Multiple Dependent 0 0 = 0	146	740	246	370	Filing a submission a (37 CFR 1 129(a))	fter final rejection	
Large Entity Small Entity Fee Fee Fee Fee Description Code (\$) Code (\$)	149	740	249	370	For each additional in (37 CFR 1.129(b))	vention to be exam	nined
Code (\$) Code (\$) 103 18 203 9 Claims in excess of 20	179	740	279	370	Request for Continue	d Examination (RC	E)
102 84 202 42 Independent claims in excess of 3 104 280 204 140 Multiple dependent claim	169	900	169	900	Request for expedite application	d examination of a	design
108 84 209 42 **Reissue independent claims over on	ginal Other fee	(specify) :					
patent 110 18 210 9 "Resissue claims in excess of 20 and over original patent Other fee (specify):							
SUBTOTAL (2) (\$) 432.00	*Reduced	d by Basic F	Filing Fee	Paid			L
** or number previously paid, if greater, For Reissues, see above					SUBTOTAL		
SUBMITTED BY					,	Complete (if app	olicable)
Name (Print/Type) Jeffrey S. Weaver		Registration No. (Attorney/Agent) 45,608 Teleph			Telephone	none 202-371-2600	
Signature Weam						Date	12-18-61